Special Issue

Hydrogen and Fuel Cells: From Materials to Systems

Message from the Guest Editors

This Special Issue will address advances in materials science, processing, characterization, technology development and system testing of various types of fuel cells and hydrogen processes. The introduction of efficient and sustainable energy conversion technologies and zero-emission vehicles is strongly required worldwide to address urgent environmental issues. Fuel cell technology represents one of the most appropriate approaches to address these problems, and hydrogen can become an important energy vector in future energy systems. These technologies comply with the requirement of a low carbon economy by 2050, where both hydrogen and a highly efficiency distributed power generation using fuel cells, providing both electrical power and heat, can significantly reduce the emission of green-house gases. Articles and reviews dealing with fuel cells and hydrogen for different market applications, including zero-emission vehicles, grid-balancing service, power-to-gas, portable power systems, combined heat and power (CHP) production, consumer devices and distributed energy systems are very welcome.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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